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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
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BUB/CTE/2014-15

1. TESTING OF FINE AGGREGATES : **Date: 03-12-2014**

Sub: Testing of Fine Aggregates.
{Project*: Improvements to Roads, drains and Covering Slab at Nanjappa Layout 12th Cross Road in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 28-11-2014
Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore
Name of the Contractor/Agency*: M/s. KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	**Percentage Passing**	Specification as Per IS: 383-1970(Reaffirmed 2002) **Percentage Passing**			Remarks
		Zone-I	**Zone-II**	**Zone -III**	
04.75	97.60	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.00	60-95	75-100	85-100	
01.18	73.60	30-70	55-90	75-100	
600. mic	49.00	15-34	35-59	60-79	
300.mic	17.50	5-20	8-30	12-40	
150.mic	3.00	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.43%	Not more than 8%
2.	Specific Gravity	----	2.52	-------

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm): **Date: 03-12-2014**

Sub: Testing of Coarse Aggregates.

{Project*: Improvements to Roads, drains and Covering Slab at Nanjappa Layout 12th Cross Road in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 28-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	98.00	85-100	95 – 100
20mm	54.20	0 -20	30- 70
10mm	18.70	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No.	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	17.20 %	Not to exceed 25 %
2.	Crushing value	----,,----	26.30%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2014-15

1. TEST REPORT ON CEMENT:

Date: 06-12-2014

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads, drains and Covering Slab at Nanjappa Layout 12th Cross Road in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 28-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 29-11-2014 to 05-12-2014

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	**155min**	Shall not be less than 30 min
2	Final setting time	**245min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.60 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.70 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results) f) 7 days (average of three results)	**29.30 N/ Sq mm** **41.00 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2014-15 **Date: 03-12-2014**

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*: Improvements to Roads, drains and Covering Slab at Nanjappa Layout 12th Cross Road in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 28-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

TABLE – 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm
02	Observed Wt/m Length **Kg/m**	**0.622**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**20.40**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**617.0**	545.0

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BUB/CTE/2014-15

DATE: 17-01-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements to Roads, drains and Covering Slab at Nanjappa Layout 12th Cross Road in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 16-01-2015
Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore
Name of the Contractor/Agency*: M/s. KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-12-14	16-01-15	28	22500	540	24.00	**23.77**
	002	"	"	"	"	530	23.55	
	003	"	"	"	"	535	23.77	

*As Furnished by Client.
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